

Figure 1

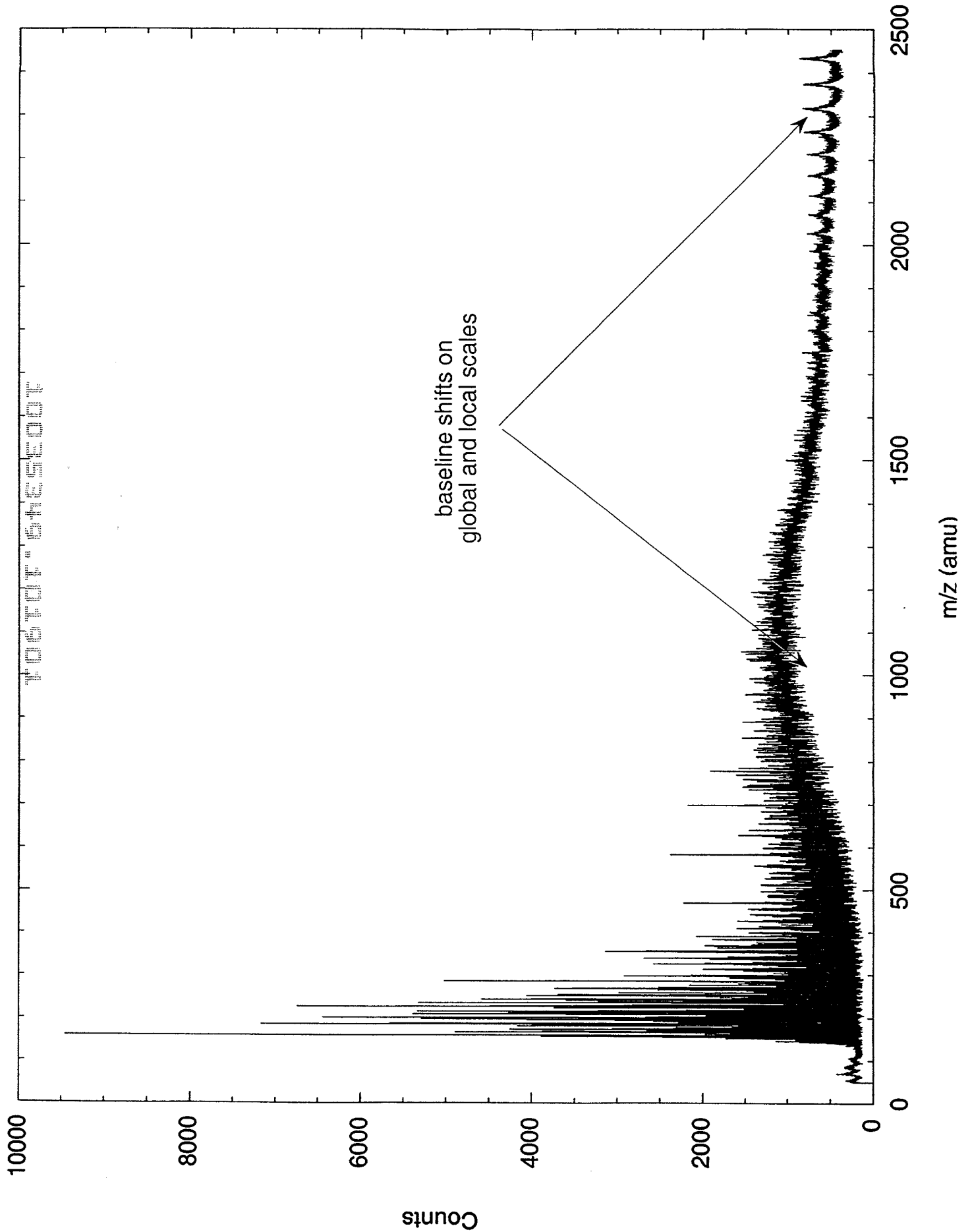


Figure 2

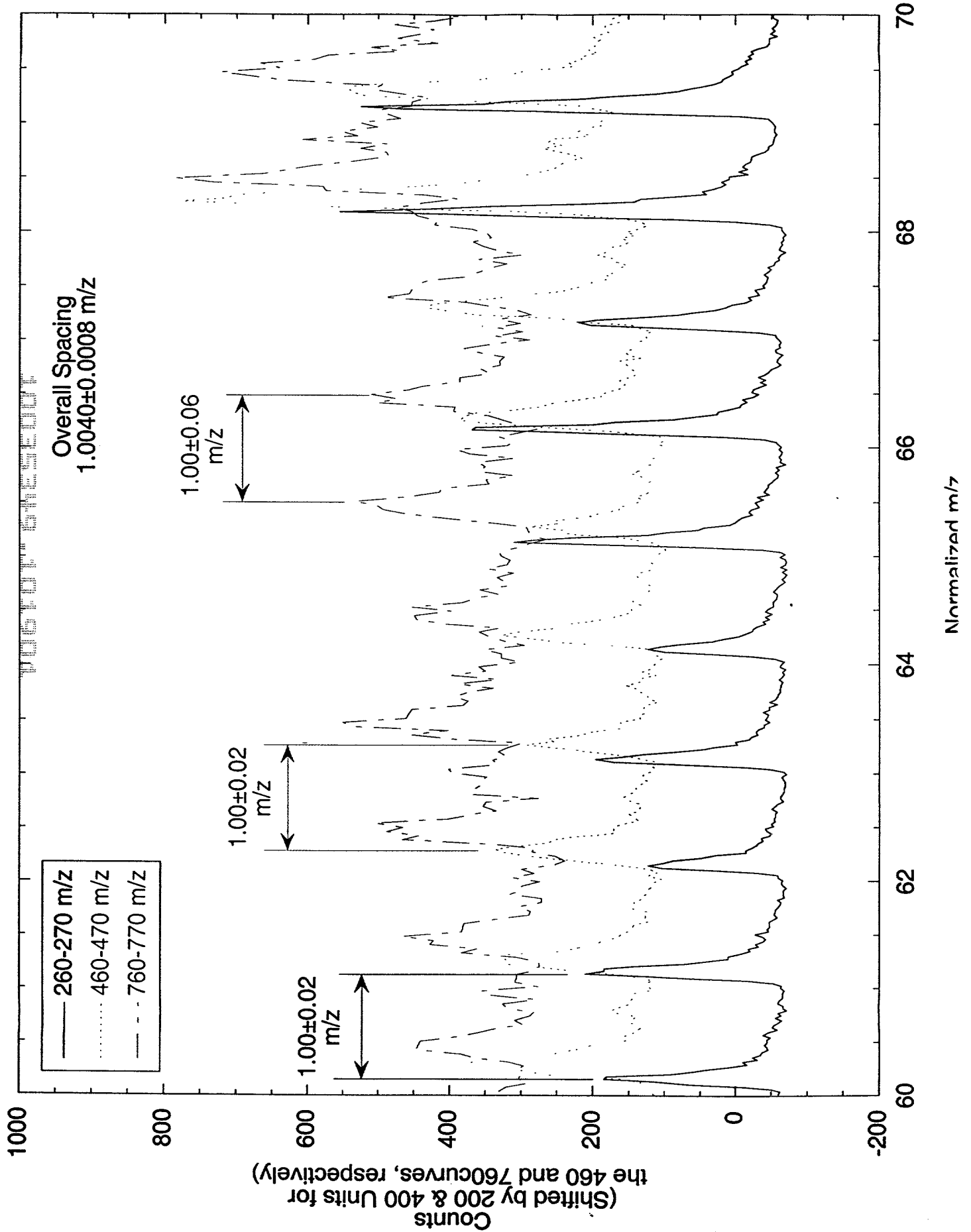


Figure 3

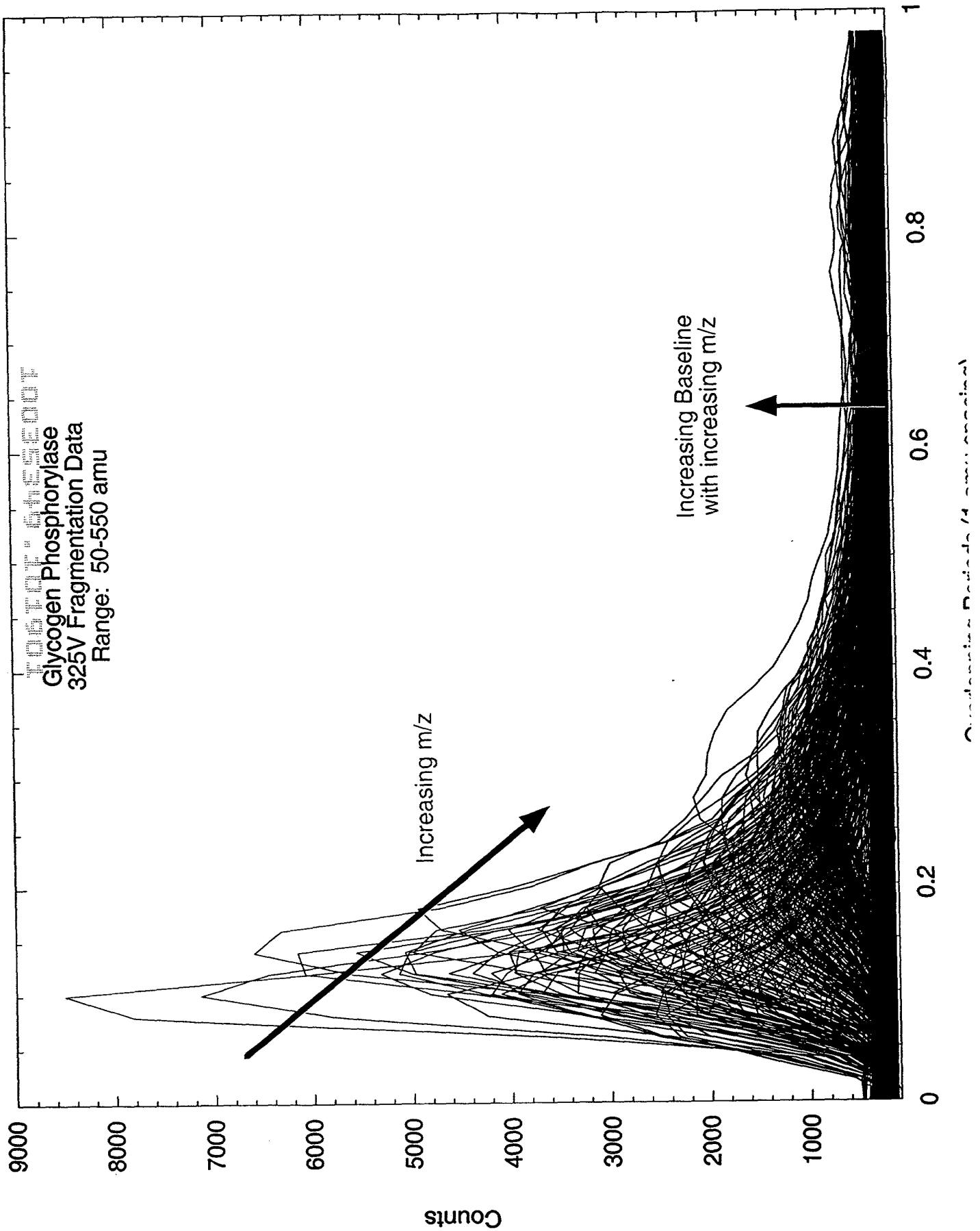


Figure 4

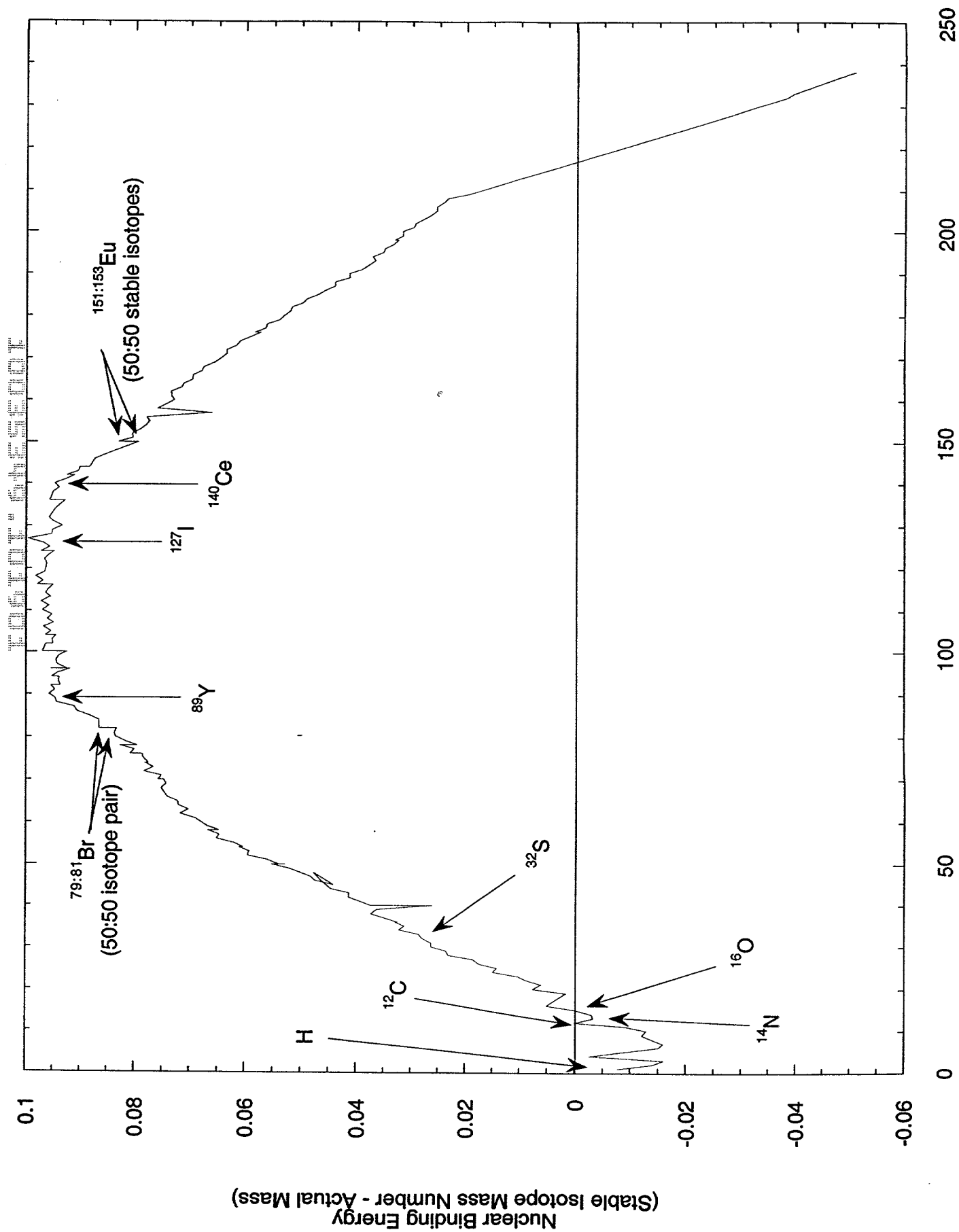
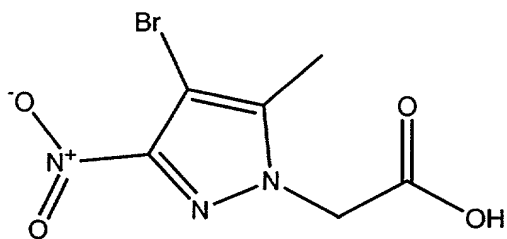
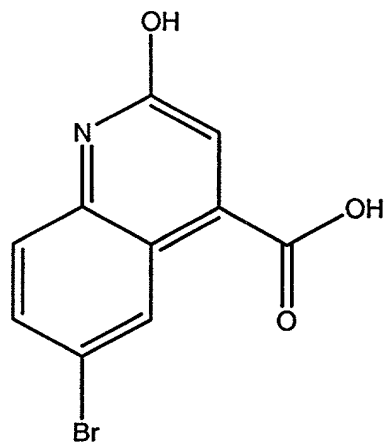
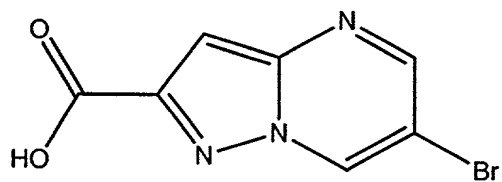
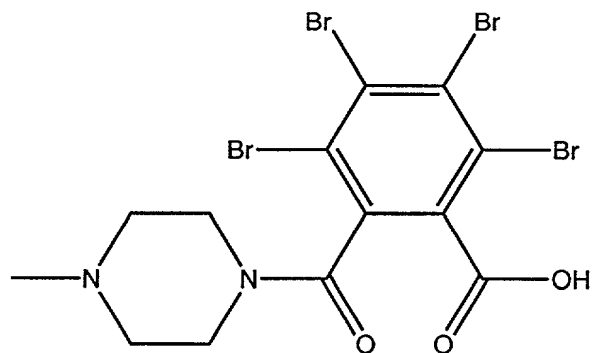
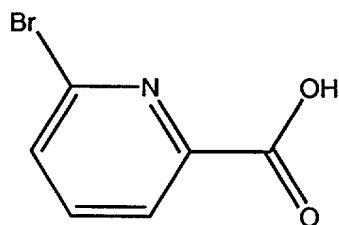
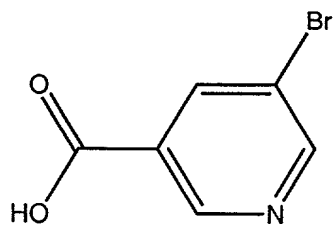
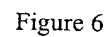


Figure 5



For "T05" sheet



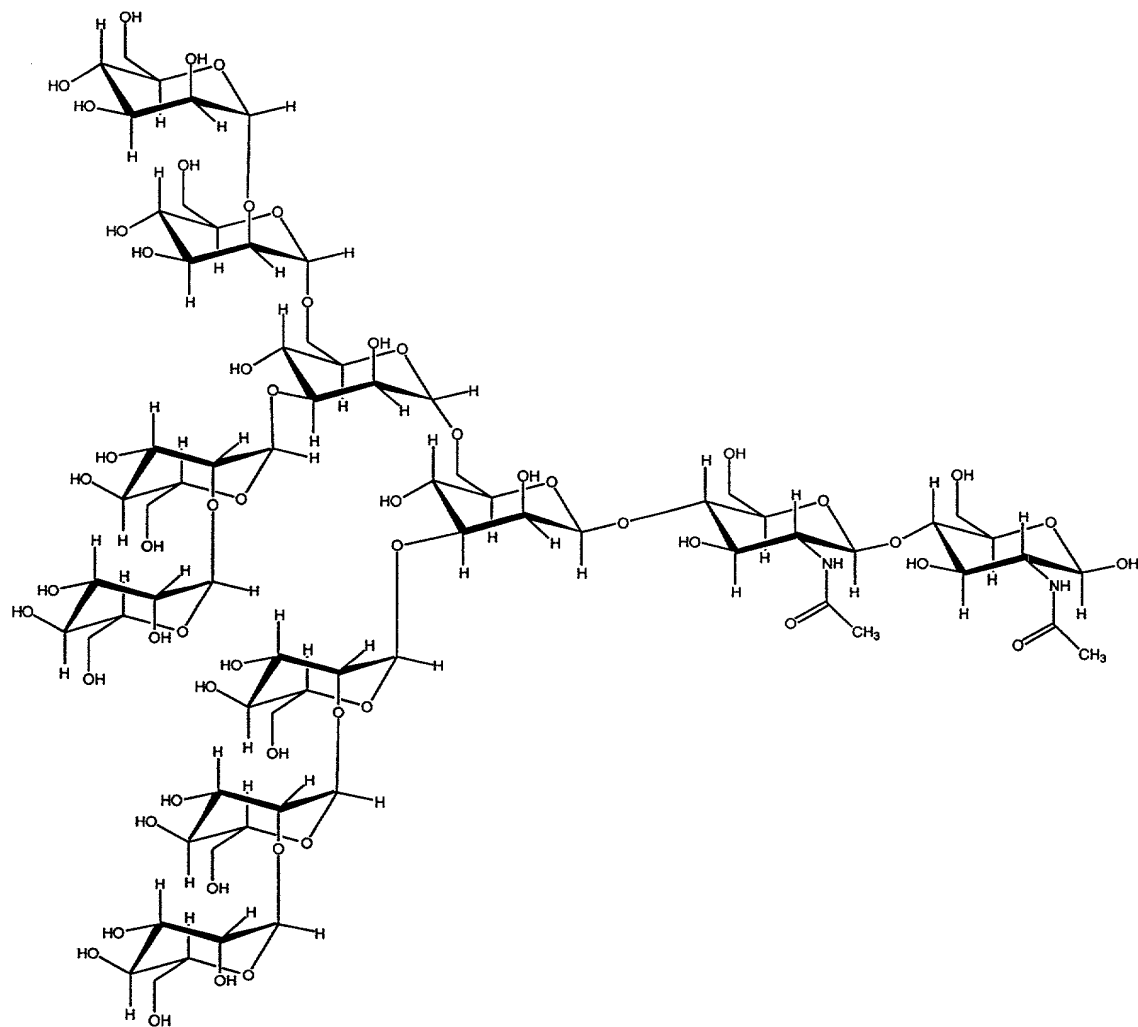


Figure 7

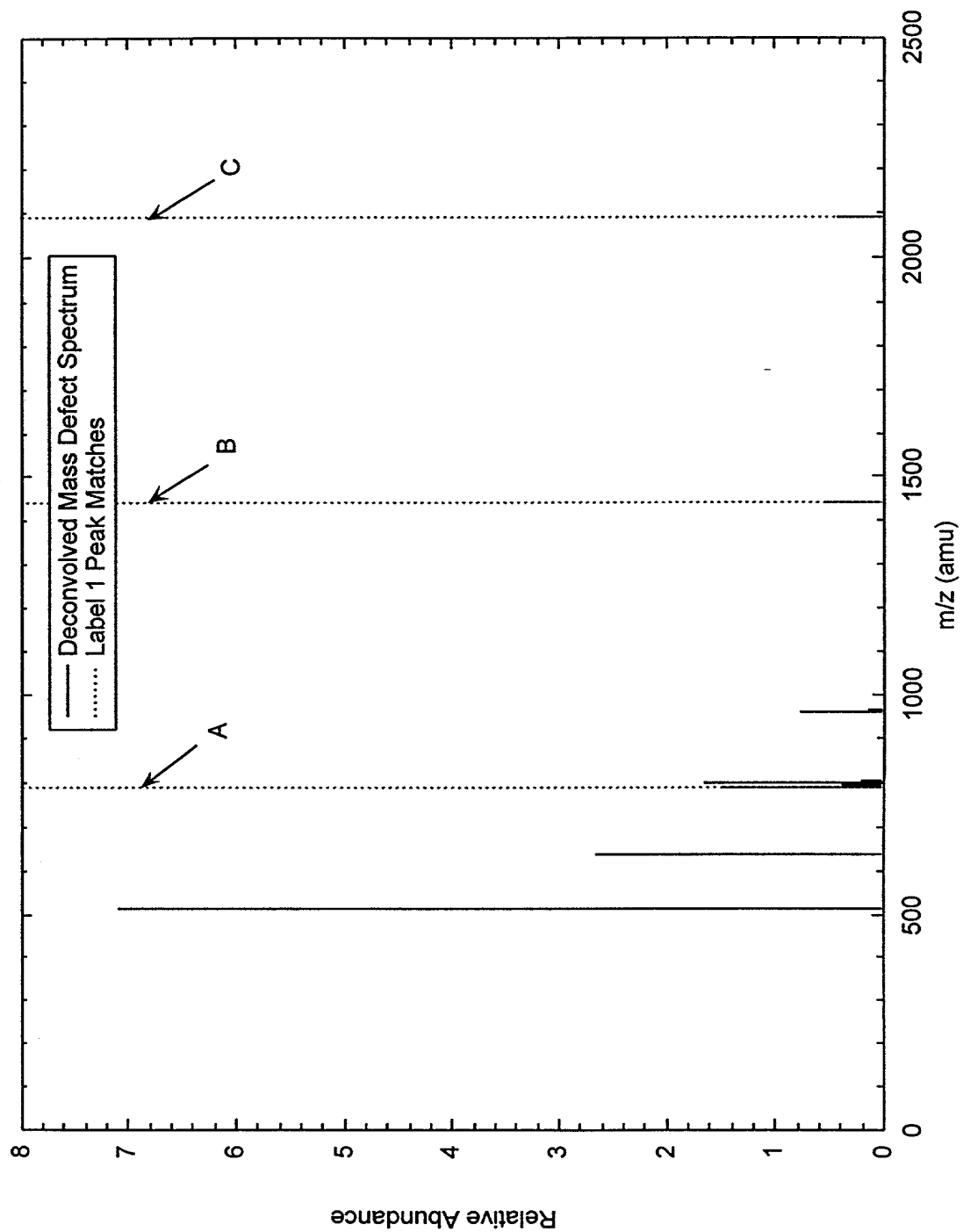
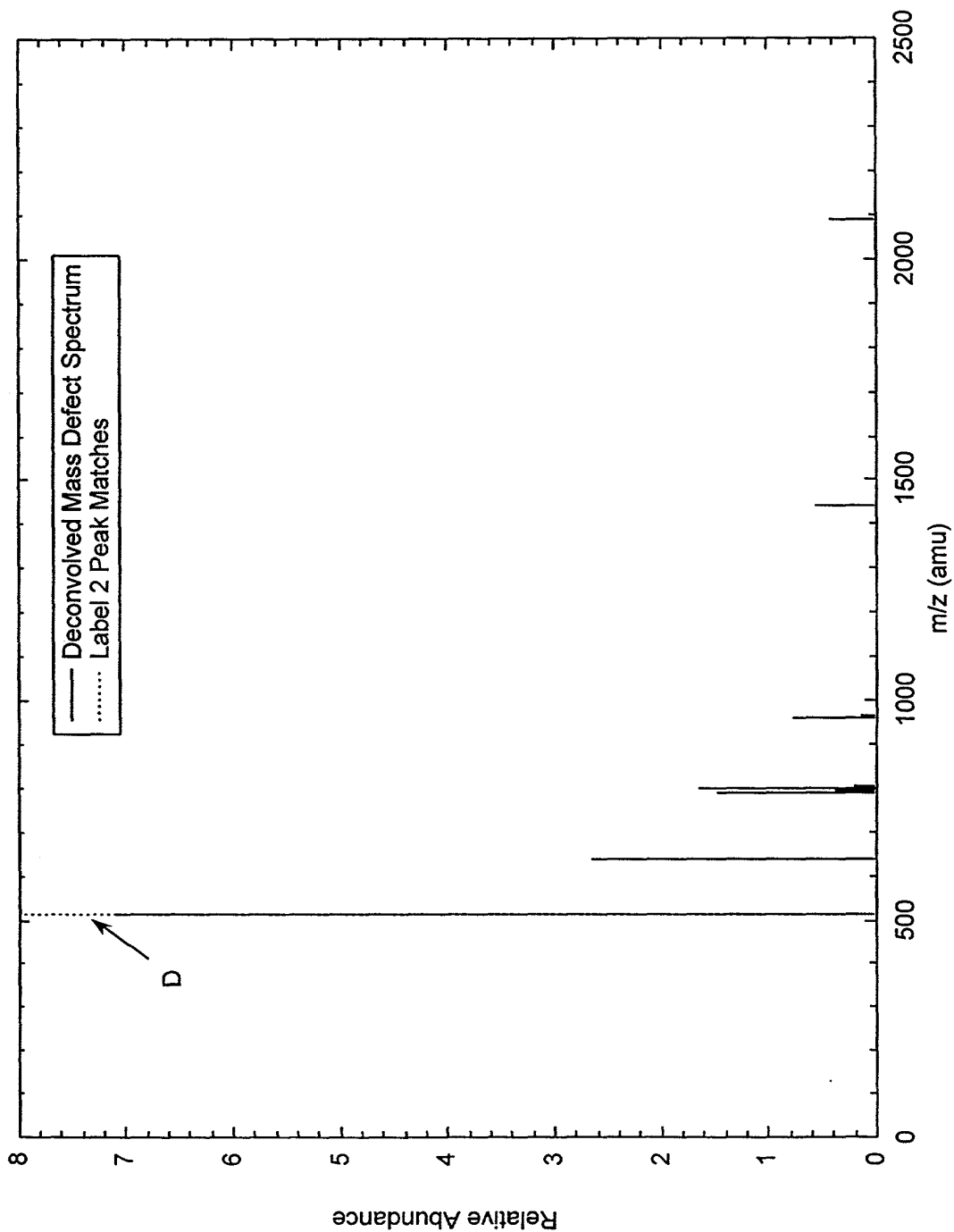


Figure 8A

Atty. Docket No.: 020444-000710
Applicant: Luke V. Schneider et al.
Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
OLIGOMER SEQUENCE
Sheet 8 of 32

Figure 8B



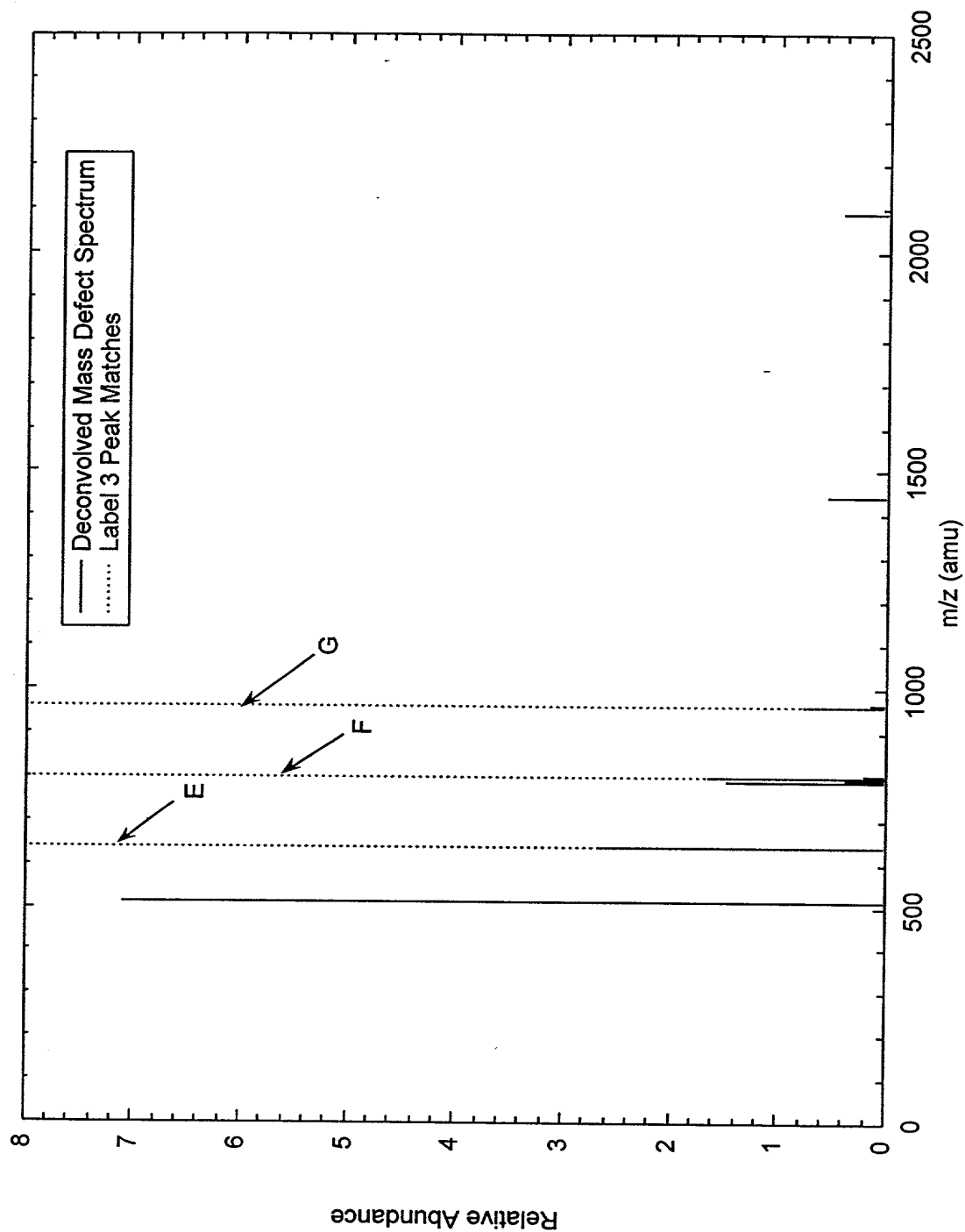


Figure 8C

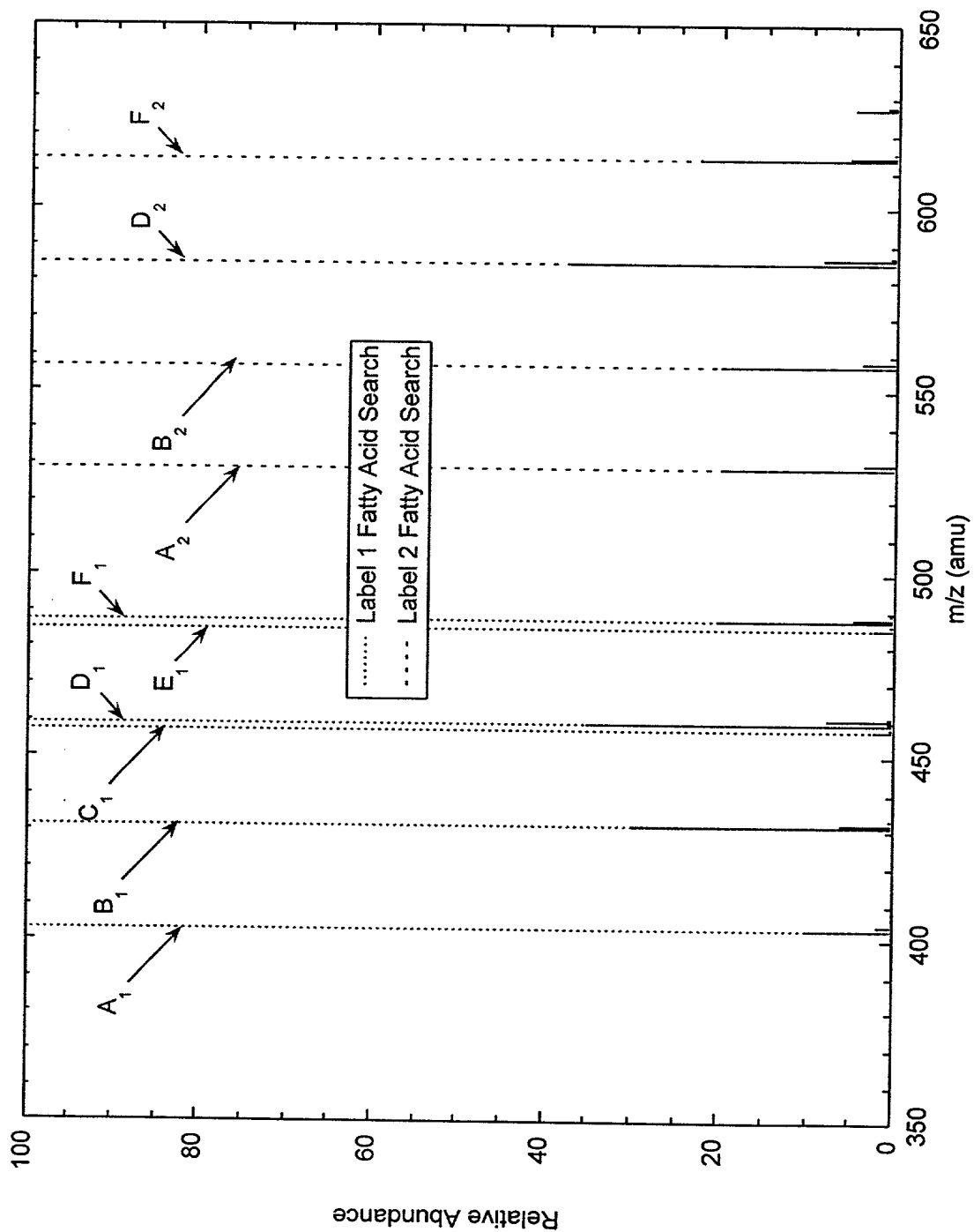
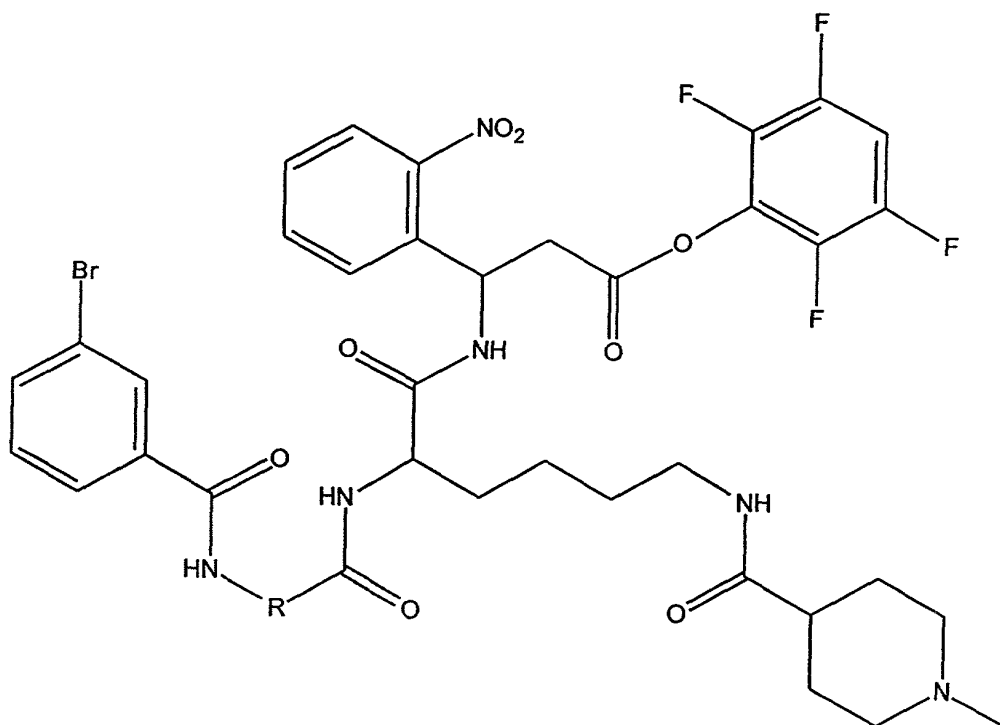


Figure 9

Atty. Docket No.: 020444-000710
 Applicant: Luke V. Schneider et al.
 Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
 OLIGOMER SEQUENCE
 Sheet 11 of 32

Figure 10



The general structure of the photocleavable mass defect tag where Br is the mass defect element that is linked through the amino acid (R) to the remainder of the tag.

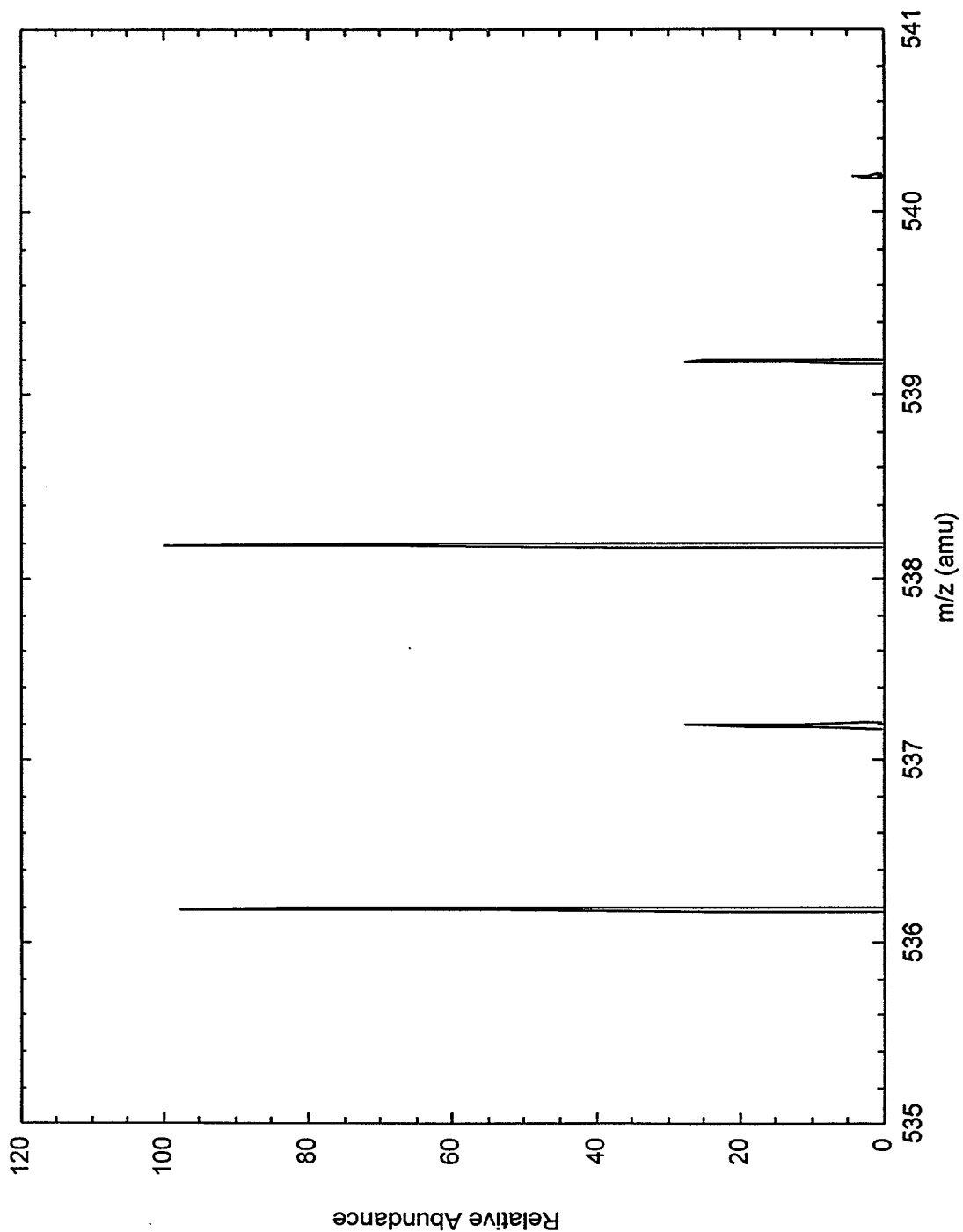


Figure 11A

Atty. Docket No.: 020444-000710
Applicant: Luke V. Schneider et al.
Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
OLIGOMER SEQUENCE
Sheet 13 of 32

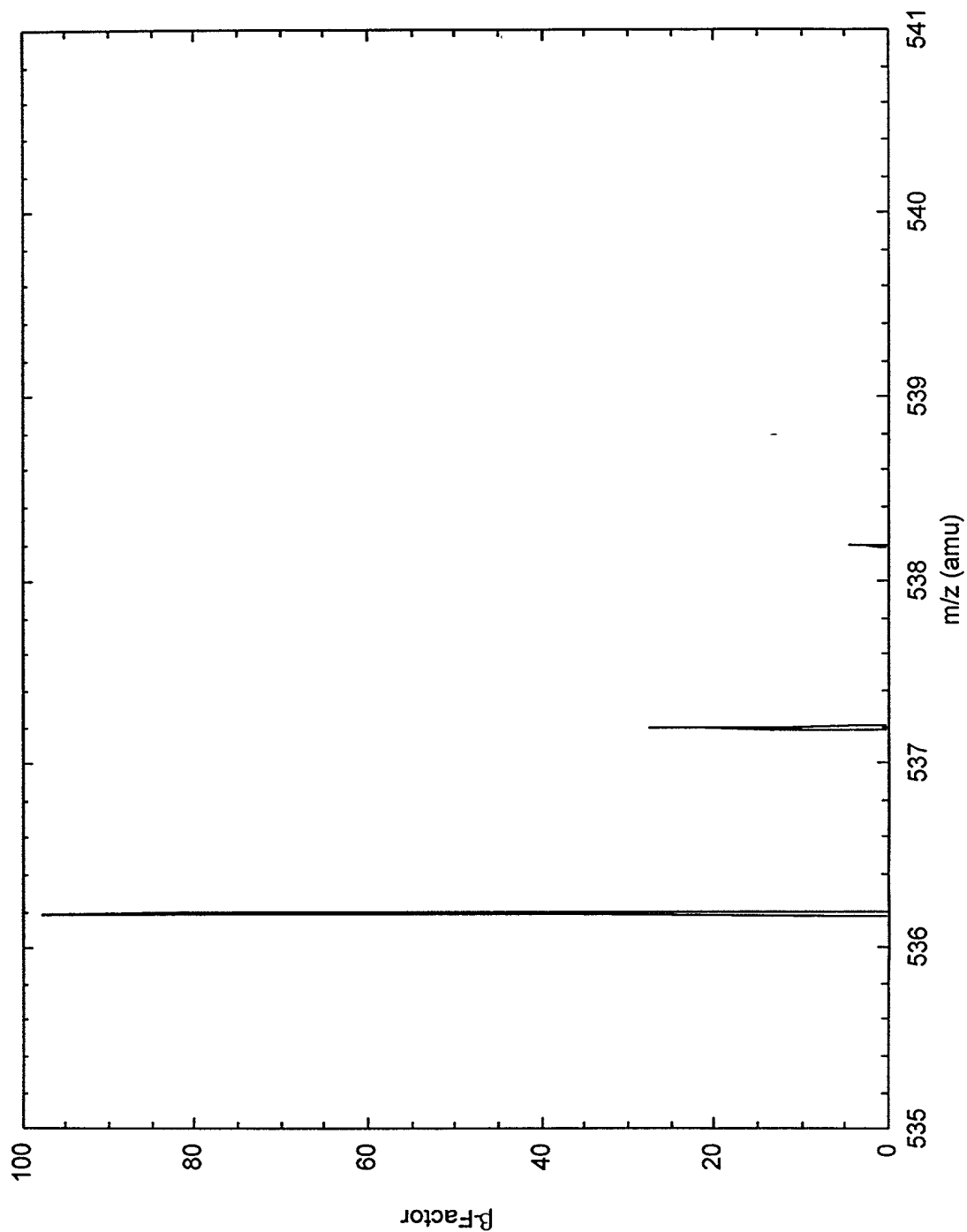


Figure 11B

Atty. Docket No.: 020444-000710
Applicant: Luke V. Schneider et al.
Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
OLIGOMER SEQUENCE
Sheet 14 of 32

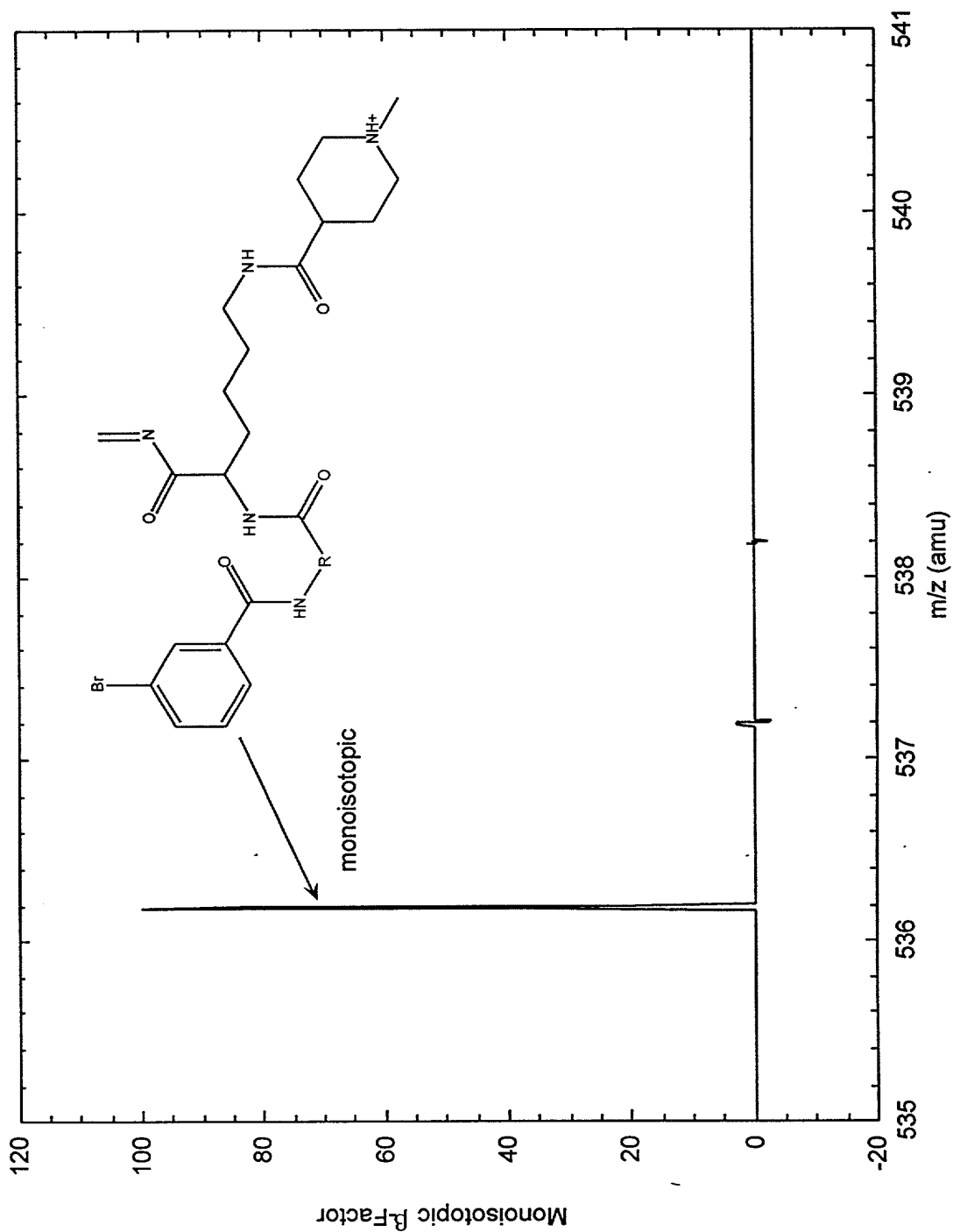


Figure 11C

Atty. Docket No.: 020444-000710
 Applicant: Luke V. Schneider et al.
 Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
 OLIGOMER SEQUENCE
 Sheet 15 of 32

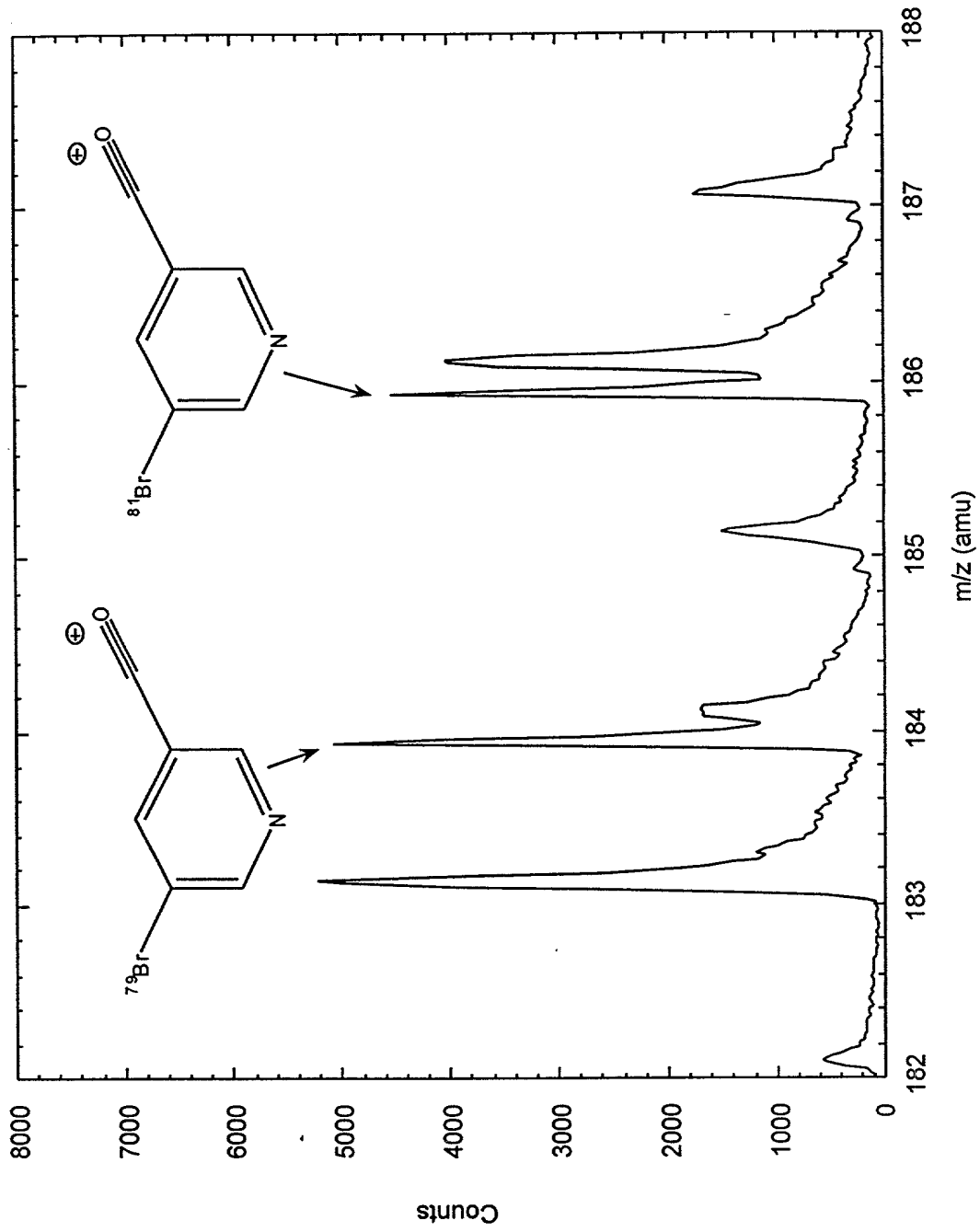
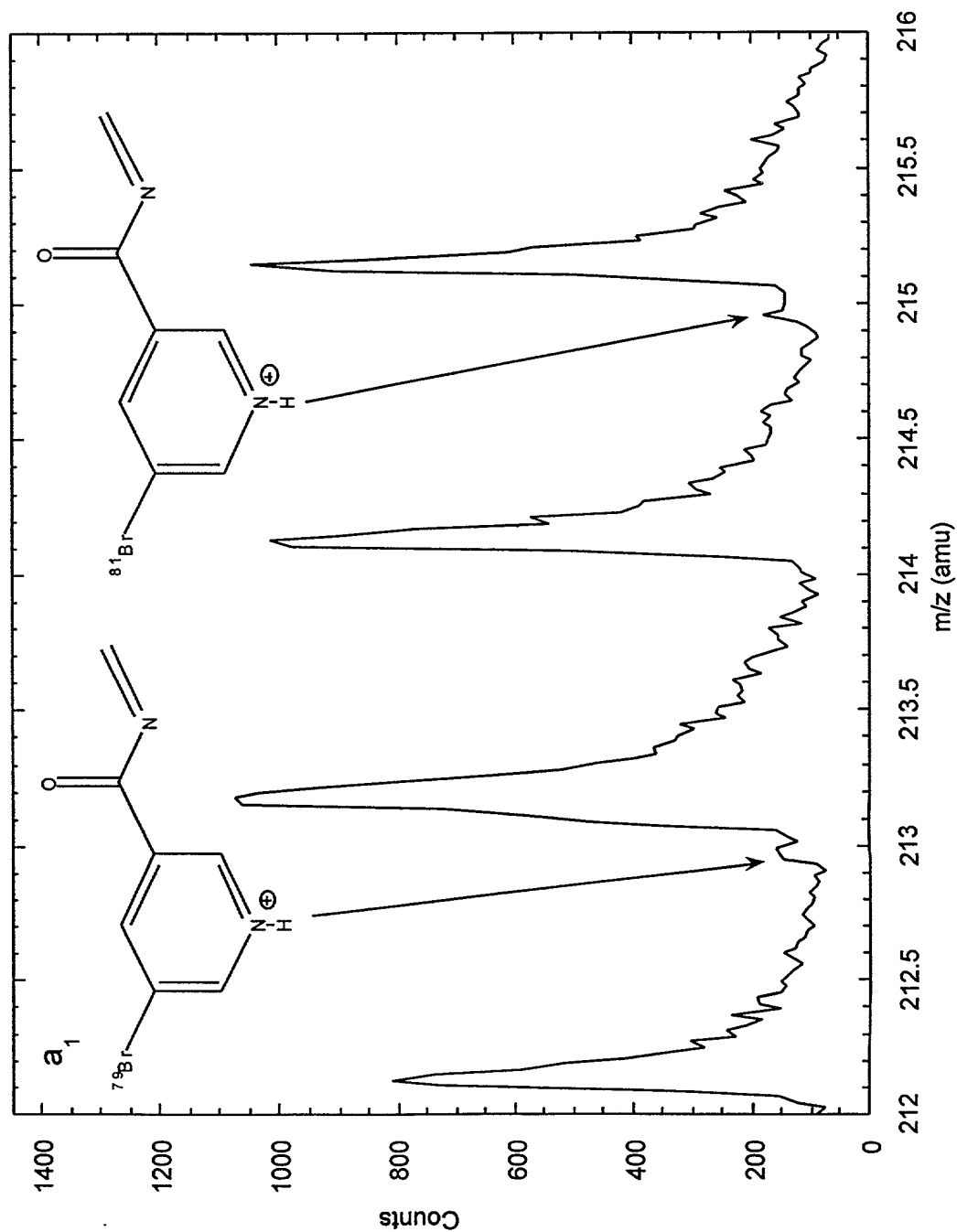


Figure 12A

Figure 12B



Atty. Docket No.: 020444-000710
 Applicant: Luke V. Schneider et al.
 Title: MASS DEFECT LABELING FOR THE DETERMINATION OF
 OLIGOMER SEQUENCE
 Sheet 18 of 32

Figure 12C

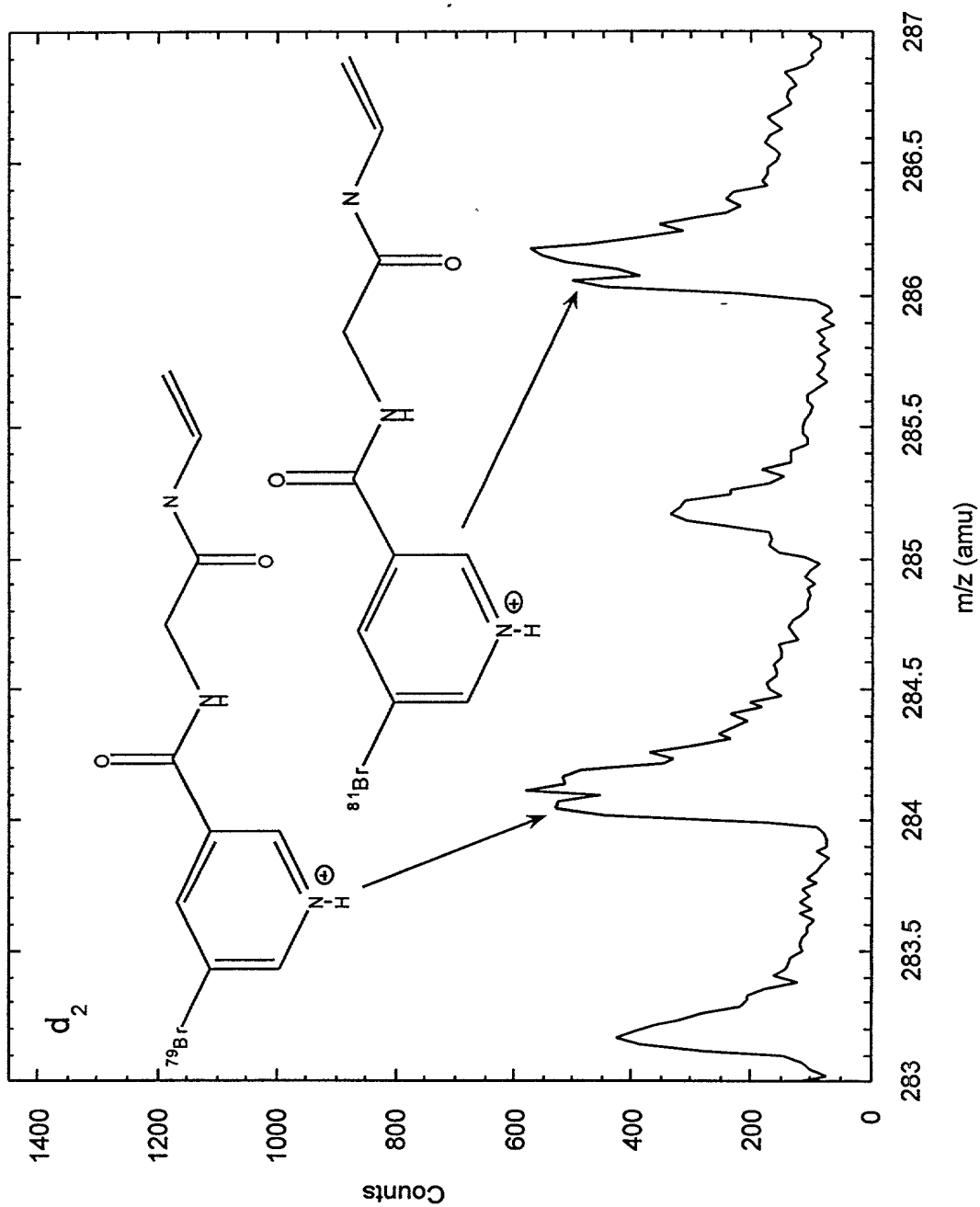


FIGURE 13A

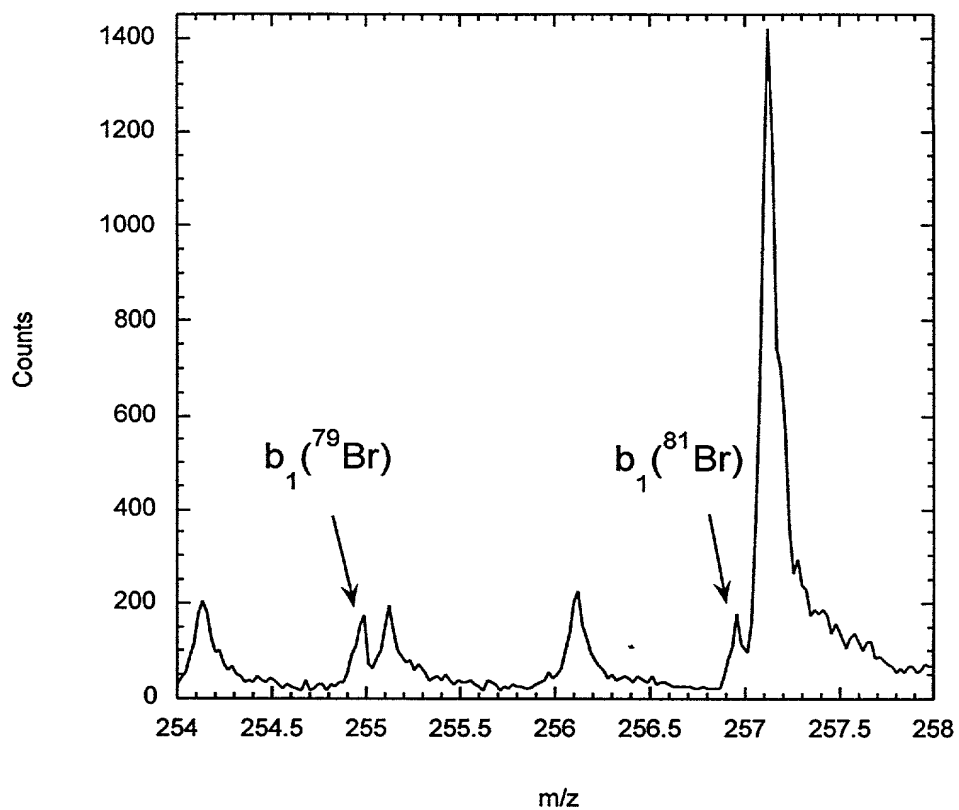


FIGURE 13B

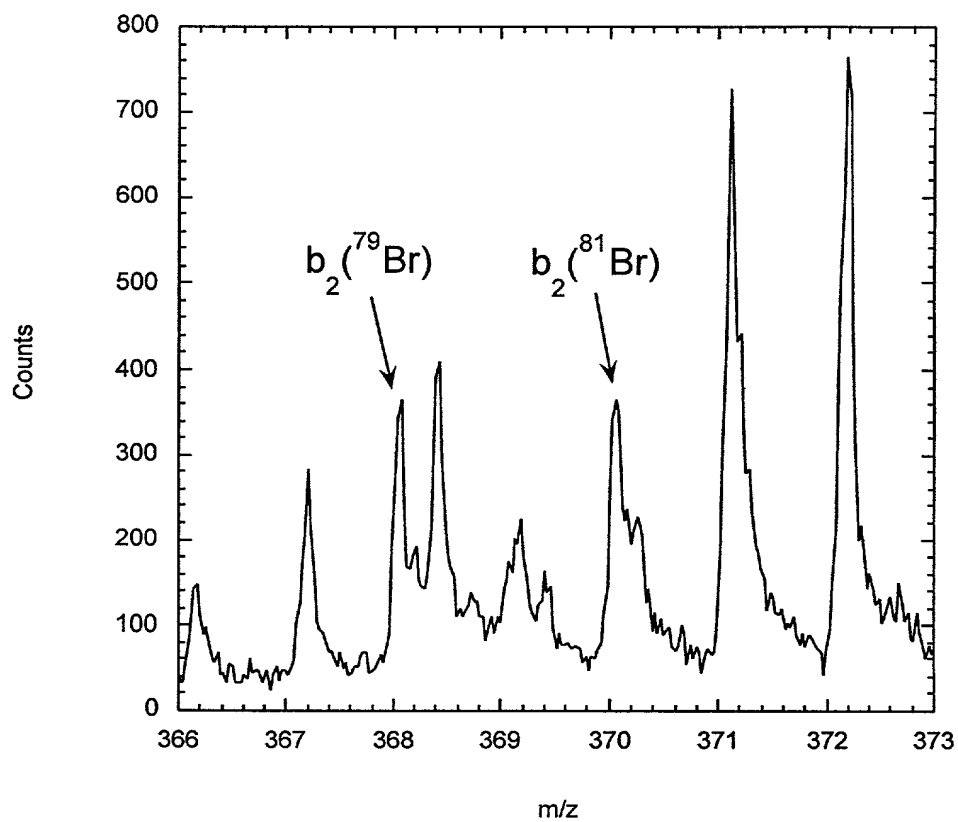


FIGURE 14A

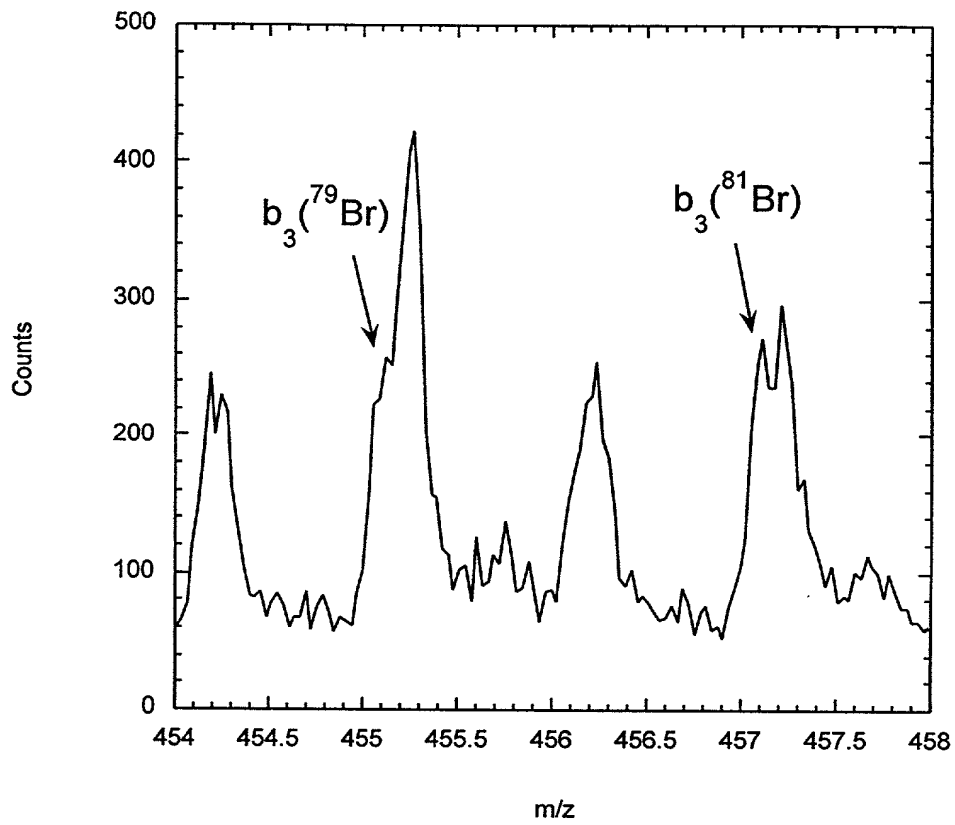


FIGURE 14B

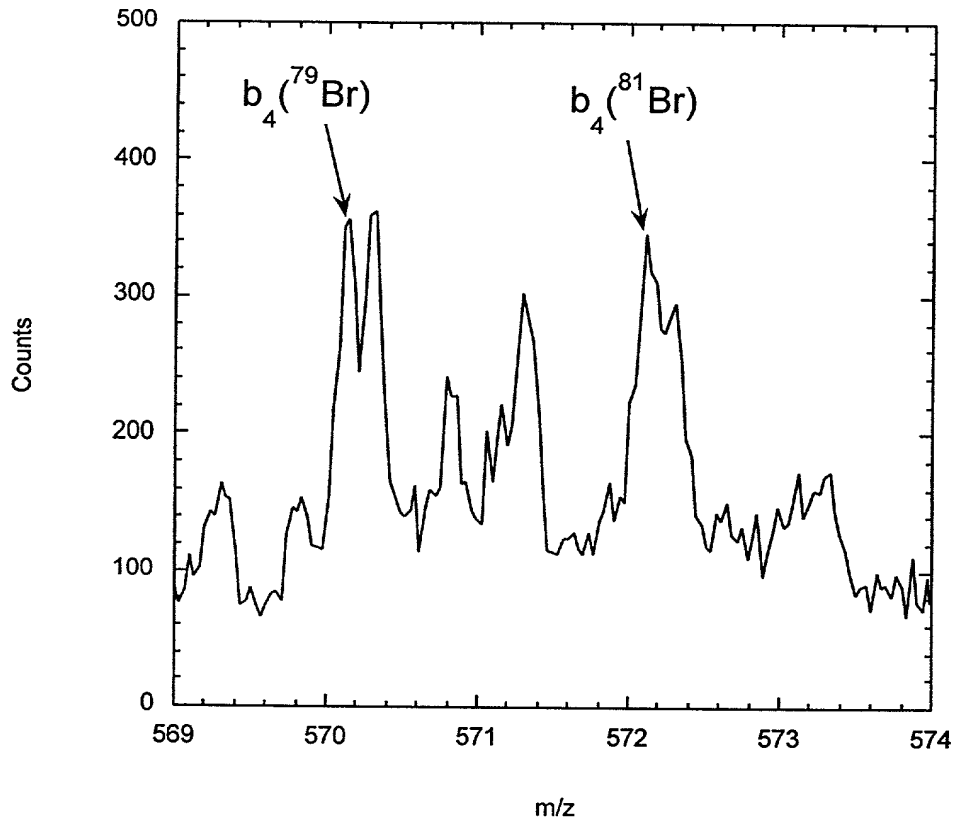


FIGURE 15A

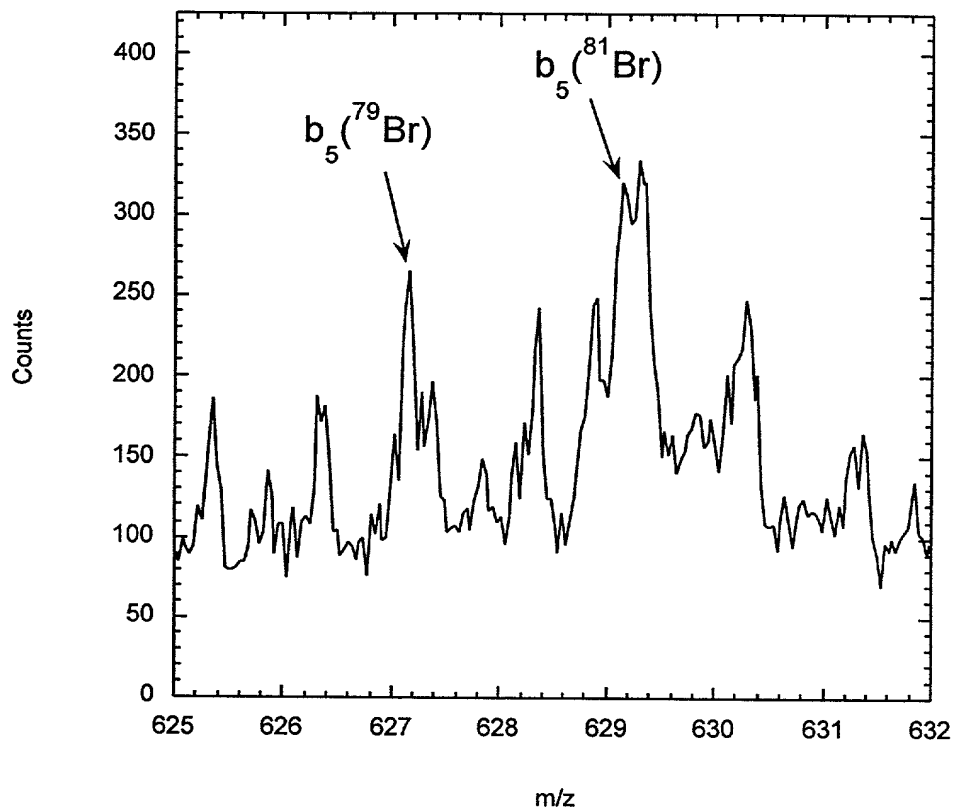


FIGURE 15B

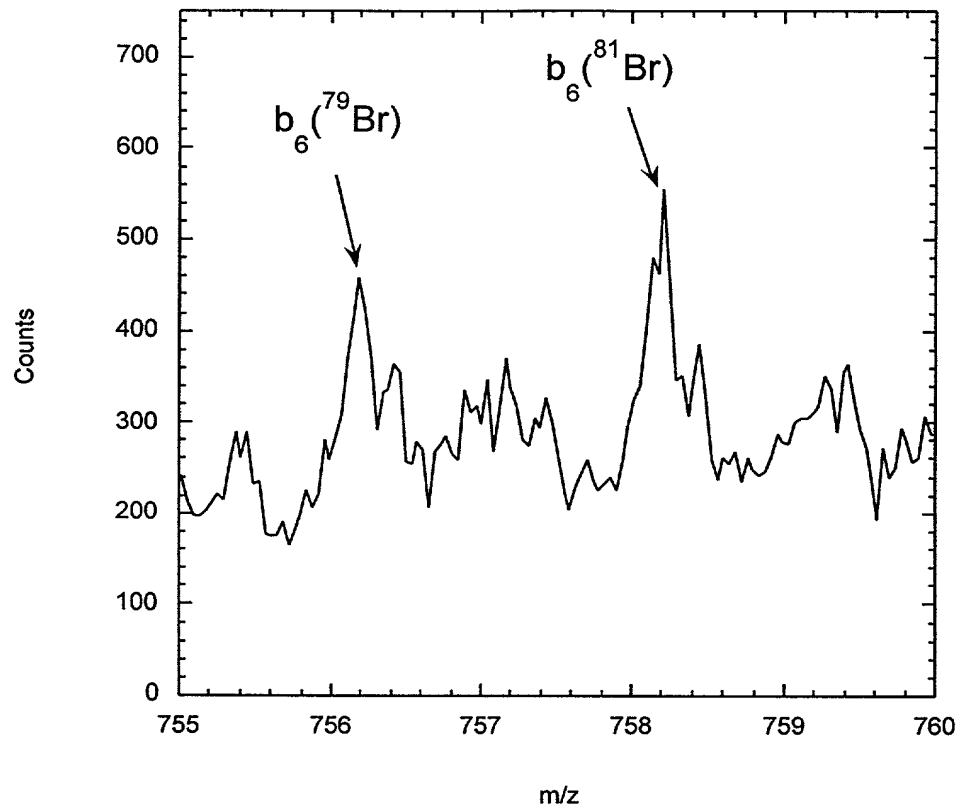


Figure 16

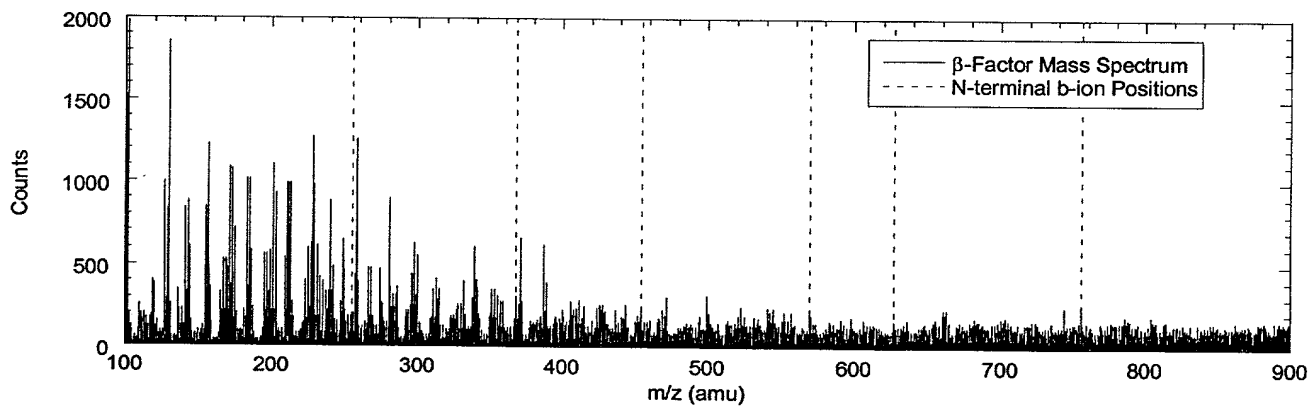
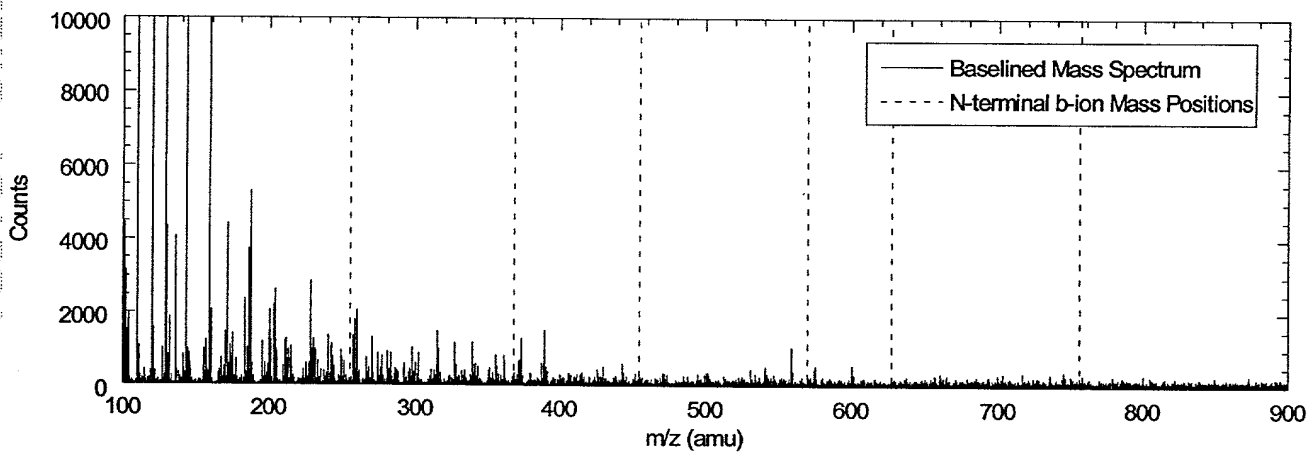
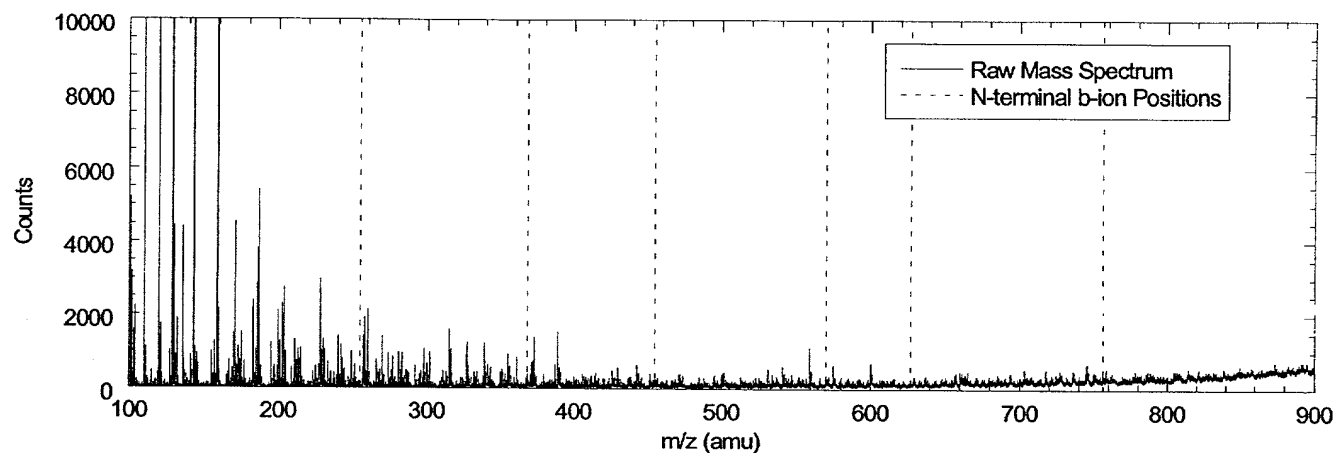


Figure 17

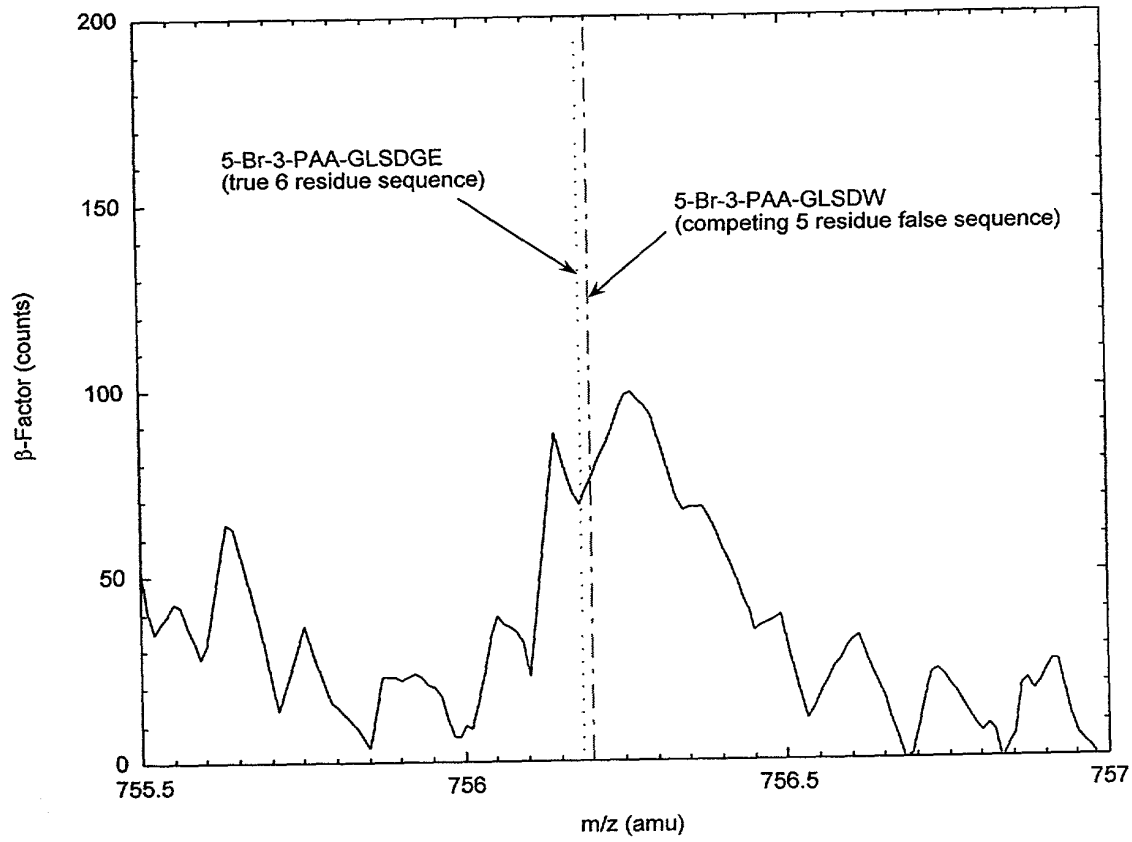


Figure 18A

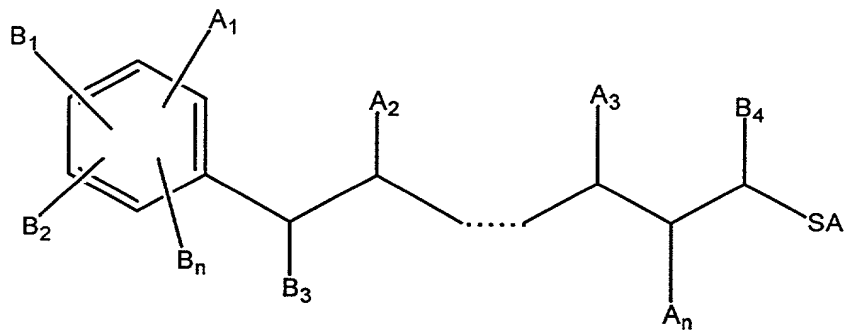


FIG. 18A

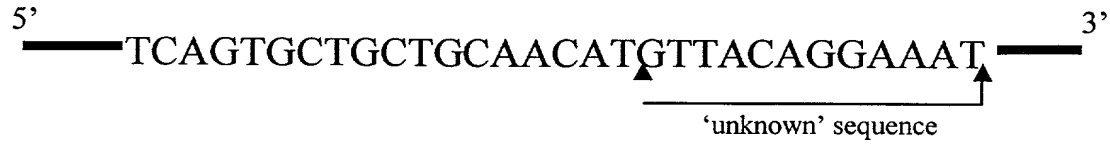
BrCc1ccc(cc1)CC(=O)OCC
 $\xrightarrow[\text{NaOEt/EtOH}]{\text{Br}_2}$
BrCc1ccc(cc1)C(Br)C(=O)OCC

\searrow

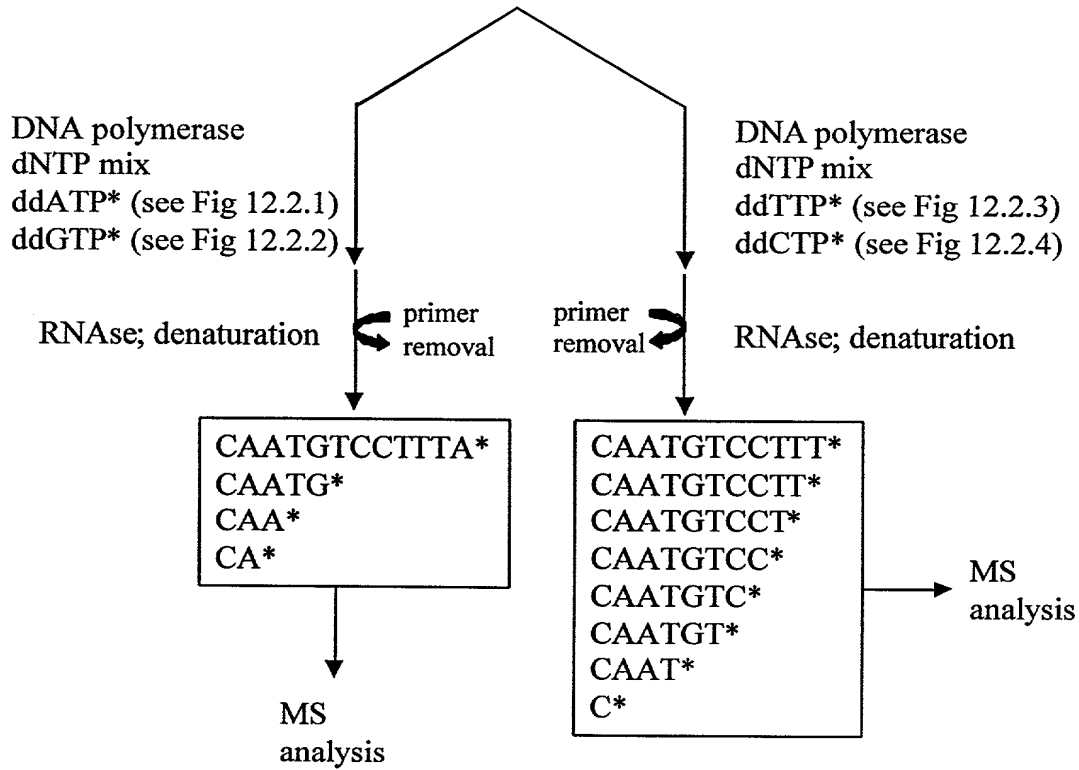
1) COC(C)(OC)CC[Li]CuCC[Li](OC)COC
 2) H_3O^+

BrCc1ccc(cc1)CC=O
 $\xrightarrow[\text{2) } \Delta, -\text{H}_2\text{O}]{\text{1) Ag(NH}_3)_2\text{Cl}}$
BrCc1ccc(cc1)C2C(=O)OC(=O)C2

Figure 19



M13 primer



FOIA b7E, b7C, b7D, b7F, b7G, b7H, b7I, b7J, b7K, b7L, b7M, b7N, b7O, b7P, b7Q, b7R, b7S, b7T, b7U, b7V, b7W, b7X, b7Y, b7Z

Figure 20A

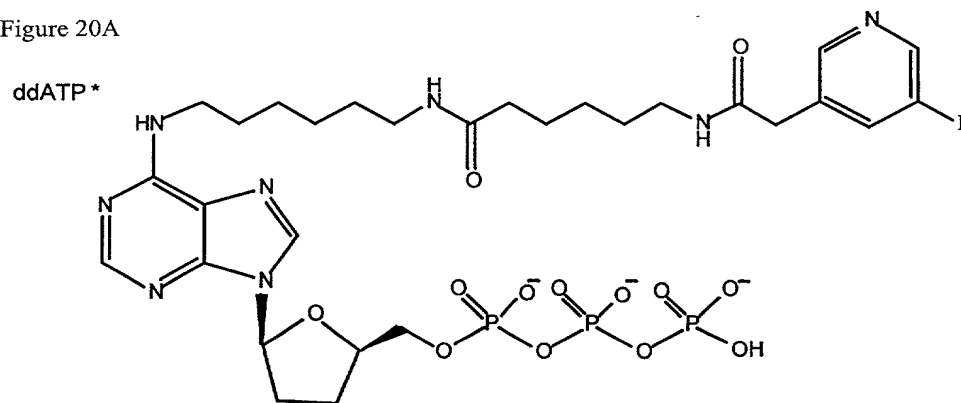


Figure 20B

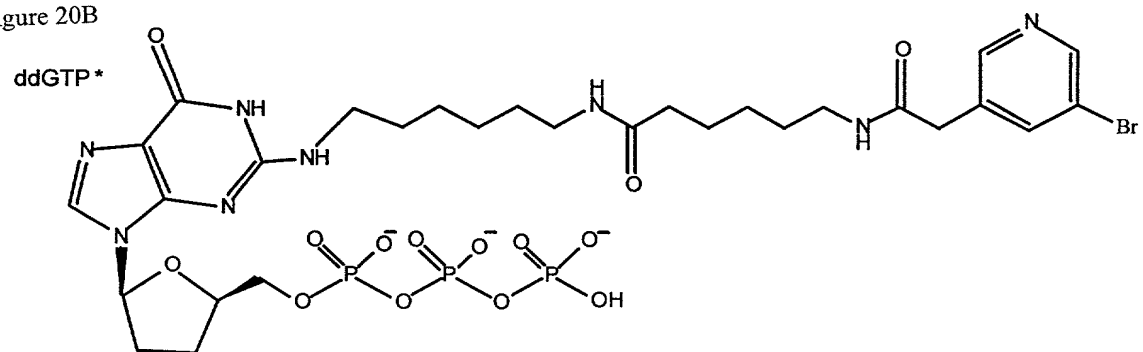


Figure 20C

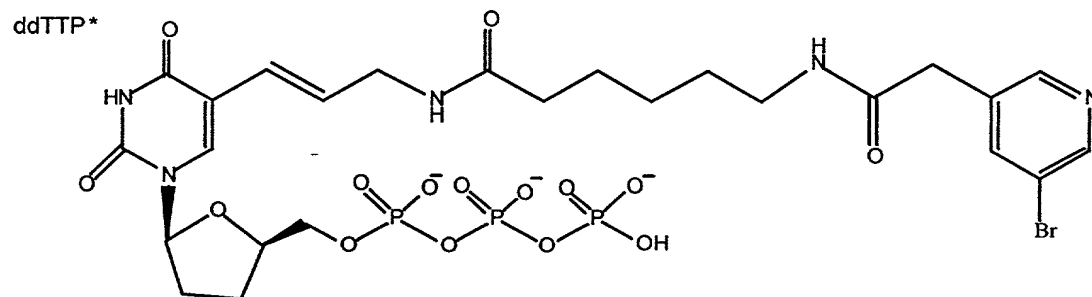


Figure 20D

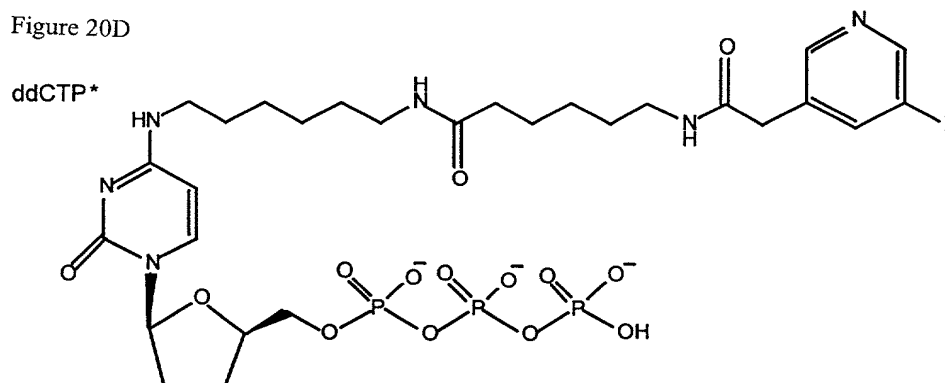


Figure 21

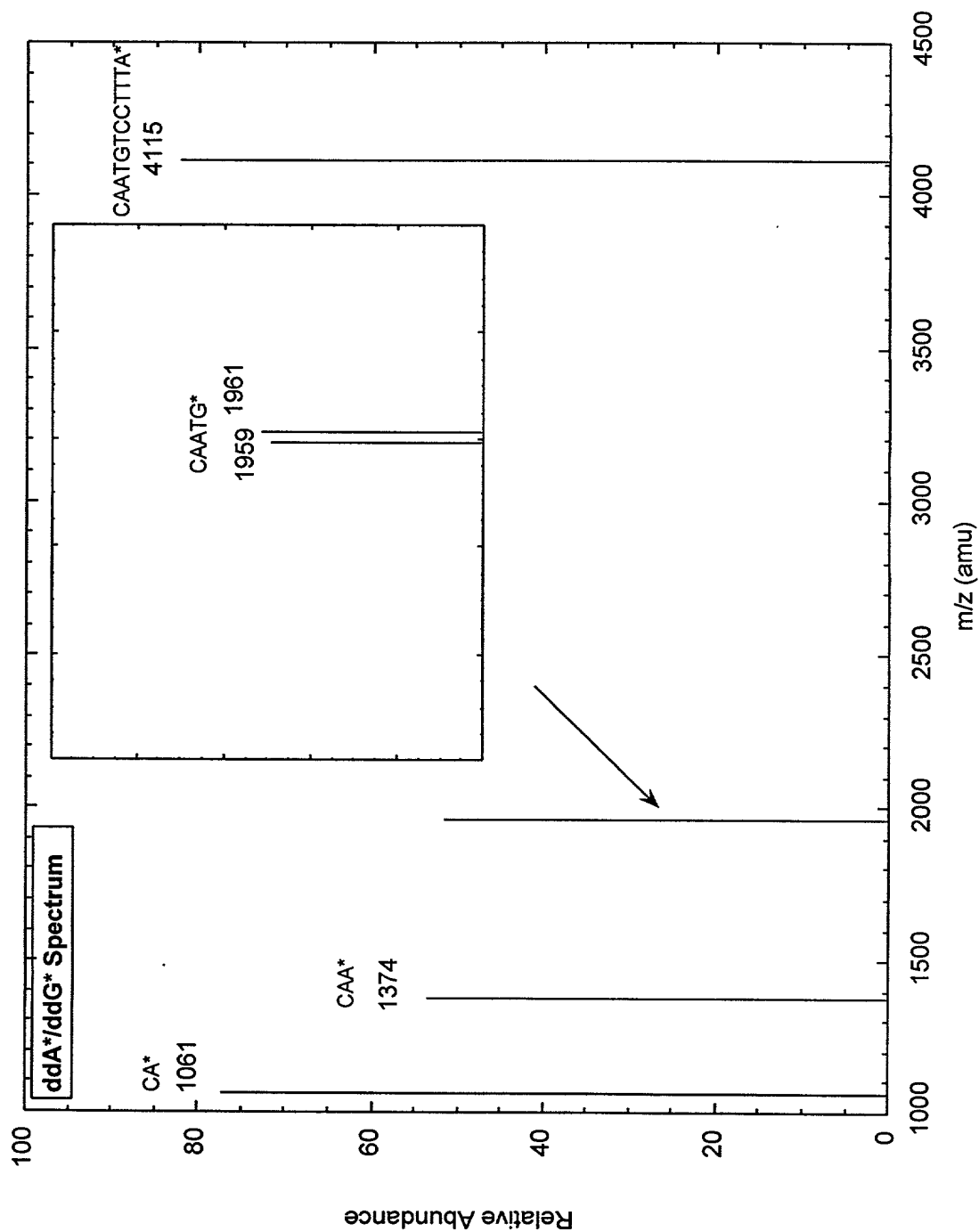


Figure 22

